

SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS <small>OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, & 30</small>				1. REQUISITION NUMBER REQ-4500-05-0009		PAGE OF 1 13	
2. CONTRACT NO. CPSC-S-05-0070		3. AWARD/ EFFECTIVE DATE 09/29/2005		4. ORDER NUMBER		5. SOLICITATION NUMBER CPSC-Q-05-0157	
7. FOR SOLICITATION INFORMATION CALL:		a. NAME Kim Miles		b. TELEPHONE NUMBER 301-504-7018		8. OFFER DUE DATE/LOCAL TIME ET	
9. ISSUED BY CONSUMER PRODUCT SAFETY COMMISSION DIV OF PROCUREMENT SERVICES 4330 EAST WEST HWY ROOM 517 BETHESDA MD 20814				10. THIS ACQUISITION IS <input checked="" type="checkbox"/> UNRESTRICTED OR <input type="checkbox"/> SET ASIDE: % FOR: <input type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> EMERGING SMALL BUSINESS NAICS: <input type="checkbox"/> HUBZONE SMALL BUSINESS SIZE STANDARD: <input type="checkbox"/> SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESS <input type="checkbox"/> 8(A)			
11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input type="checkbox"/> SEE SCHEDULE		12. DISCOUNT TERMS Net 30		13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700) <input type="checkbox"/>		13b. RATING	
15. DELIVER TO CODE HS CONSUMER PRODUCT SAFETY COMMISSION DIRECTORATE FOR HEALTH SCIENCES 4330 EASTWEST HIGHWAY ROOM 600-25 BETHESDA MD 20814				16. ADMINISTERED BY CODE ADPS CONSUMER PRODUCT SAFETY COMMISSION DIV OF PROCUREMENT SERVICES 4330 EAST WEST HWY ROOM 517 BETHESDA MD 20814			
17a. CONTRACTOR/OFFEROR CODE 068103738 FACILITY CODE GREAT LAKES MARKETING ASSOCIATES INC 3103 EXECUTIVE PARKWAY SUITE 106 TOLEDO OH 43606-1311				18a. PAYMENT WILL BE MADE BY CODE ADFS CONSUMER PRODUCT SAFETY COMMISSION DIVISION OF FINANCIAL SERVICES 4330 EAST WEST HWY, ROOM 522 BETHESDA MD 20814			
TELEPHONE NO.				17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER			
19. ITEM NO.				20. SCHEDULE OF SUPPLIES/SERVICES			
				21. QUANTITY			
				22. UNIT			
				23. UNIT PRICE			
				24. AMOUNT			
Tax ID Number: 340947132 DUNS Number: 068103738 The contractor shall furnish all necessary personnel, materials, services and facilities to perform testing with children to see how they interact with sprayer packaging when given different instructional sets. The testing shall be in accordance with the attached statement of work. (Use Reverse and/or Attach Additional Sheets as Necessary)							
25. ACCOUNTING AND APPROPRIATION DATA 05 PS EXOB 3000 33763 252B						26. TOTAL AWARD AMOUNT (For Govt. Use Only) \$23,670.00	
27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4. FAR 52.212-3 AND 52.212-5 ARE ATTACHED. ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED						27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED. ADDENDA <input checked="" type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED	
28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.						29. AWARD OF CONTRACT: REF. _____ OFFER DATED _____ YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN IS ACCEPTED AS TO ITEMS:	
30a. SIGNATURE OF OFFEROR/CONTRACTOR				31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER) <i>Donna Hutton</i>			
30b. NAME AND TITLE OF SIGNER (Type or print)				31b. NAME OF CONTRACTING OFFICER (Type or print) Donna Hutton			
30c. DATE SIGNED				31c. DATE SIGNED 9/29/05			

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
0001	<p>Period of Performance: 09/29/2005 to 09/28/2006</p> <p>Pilot Testing with children to observe how they interact with sprayer packaging when given differenct instructional sets.</p> <p>Total amount of award: \$23,670.00. The obligation for this award is shown in box 26.</p>	10	EA	2,367.00	23,670.00

32a. QUANTITY IN COLUMN 21 HAS BEEN

☐ RECEIVED☐ INSPECTEDACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS
☐ NOTED:32b. SIGNATURE OF AUTHORIZED GOVERNMENT
REPRESENTATIVE

32c. DATE

32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE

32e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE

32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE

32g. E-MAIL OF AUTHORIZED GOVERNMENT REPRESENTATIVE

33. SHIP NUMBER

34. VOUCHER NUMBER

35. AMOUNT VERIFIED
CORRECT FOR

36. PAYMENT

37. CHECK NUMBER

☐ PARTIAL ☐ FINAL☐ COMPLETE ☐ PARTIAL ☐ FINAL

38. S/R ACCOUNT NUMBER

39. S/R VOUCHER NUMBER

40. PAID BY

41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT

42a. RECEIVED BY (Print)

41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER

41c. DATE

42b. RECEIVED AT (Location)

42c. DATE REC'D (YYMM/DD)

42d. TOTAL CONTAINERS

DESCRIPTION OF SERVICES TO INCLUDE THE STATEMENT OF WORK

1) BACKGROUND STATEMENT

The U.S. Consumer Product Safety Commission (CPSC) administers and enforces the regulations of the Poison Prevention Packaging Act (PPPA) of 1970. Human performance testing with children and/or senior-adults is carried out to determine if packages comply with the regulations of PPPA.

2) OBJECTIVE OF THE PROJECT

The purpose of the work outlined below is to conduct pilot testing with children to observe how they interact with sprayer packaging when given different instructional sets such as open, spray or neutral language.

3) STATEMENT OF WORK

Independently, and not as an agent of the Government, the Contractor shall furnish all necessary personnel, materials, services, and facilities to perform the work set forth below; except as provided Section 10, GOVERNMENT FURNISHED MATERIALS/EQUIPMENT.

a) Conference Call Meeting

On or before September 30, 2005, by close of business, the Contractor's key personnel who will be most directly involved in supervising the work on a daily basis shall have a conference call with the CPSC Project Officer to discuss the objectives and requirements of this contract. This conference call will be arranged by the CPSC staff at a time agreed to by all parties. The Contractor will be notified of any procedural modifications that may result in language changes to the testing procedures in writing by the Project Officer within seven (7) calendar days after the conference call. Modifications of any testing procedures that result from this preliminary meeting shall be incorporated by the Contractor before actual testing begins.

b) Videotaping of testing

All of the tests shall be videotaped with corresponding audio in standard VHS format. The Contractor shall ensure that the children and tester are clearly heard within the audio portion of the videotape. Children in the videotape shall be identified in the tape by the testers by pairs so that they may be matched to the corresponding data sheets. It is required that all testing and videotaping take place in a single test facility. Each test shall be on a separate videotape. The videotape will be used internally by CPSC staff to observe the children's behavior and responses to the test language.

c) General Sprayer Test Definitions

- i) Sample preparation: Each set of samples to be tested shall be prepared as directed by the CPSC Project Officer prior to beginning each test. All sprayer packaging shall be partially filled with water to the indentation marking on the bottle and weighed before and after the test. The weights shall be recorded on the data collection sheets. The packages shall be closed to a torque specified by the project officer. At least 72 hours shall elapse prior to beginning the child test to allow the materials (e.g., the closure liner) to "take a set." All packages shall be handled so that no damage or jarring will occur during storage or transportation. The packages shall not be exposed to extreme conditions of heat or cold. The packages shall be tested at room temperature.
- ii) Child Test Participants - Ten (10) children shall be tested for each of the tests. The children selected should have no obvious or overt physical or mental handicap. No child with a permanent or temporary illness, injury, or handicap that would interfere with his/her effective participation shall be included in the test. No child shall have participated in any other child resistant package test (CR naïve). A parent or guardian of each child shall read and sign a consent form prior to the child's participation (Attachment A).

- iii) Child Participant Ages - Tests will be conducted with children either 42-44 months of age or with children 49-51 months of age. The children's ages in near months shall be calculated according to the method described in Attachment B. The Project Officer will specify the age group for each test.
 - iv) Child Participant Sex Distribution - One-half of the children in each age group will be male and half female.
 - v) A single tester will test all children.
 - vi) General Child Test Procedures - The child tests will be conducted in accordance with the general procedures outlined below. Specific language for each test will be given to the testing organization by the CPSC project officer prior to beginning each test (See attachment C for previous testing language). The Contractor will ensure that testers are trained in the conduct of the various tests and that they are thoroughly familiar with the specific language and coding requirements of each test they perform.
1. The children shall be tested in groups of two.
 2. The testing shall be done in a central location with audio/videotaping capabilities.
 3. The testing shall take place in a well-lighted location that is isolated from auditory and visual distractions.
 4. The tester, or another adult, shall escort a pair of children to the test area. The tester shall seat the two children so that there is no visual barrier between the children and the tester.
 5. The tester shall talk to the children to make them feel at ease.
 6. The children shall not be given the impression that they are in a race or contest. They shall not be told that the test is a game or that it is fun. They shall not be offered a reward.

7. The tester shall record all data prior to, or after, the test so that full attention can be on the children during the test period
8. The tester shall use a stopwatch(s) or other timing devices to time the specified actions.
9. To begin the test, the tester shall hand the children identical packages. The language for each test will be specified by the CPSC project officer and given to the testing organization prior to beginning the test.
10. If a child refuses to participate after the test has started, the tester shall reassure the child and gently encourage the child to try. If the child continues to refuse, the tester shall ask the child to hold the package in his/her lap until the other child is finished. Refusal shall include instances of the child doing something other than the action requested by the tester (e.g., if the child is asked to open the container, and attempts only to spray rather than open the cap). This pair of children shall **not** be eliminated from the results unless the refusing child disrupts the participation of the other child.
11. Each child shall be given up to 5 minutes to respond correctly to the instructions.
12. The tester shall watch the children at all times during the test. The tester shall minimize conversation with the children as long as they continue to attempt to follow the instructions. The tester shall not discourage the children verbally or with facial expressions. If a child gets frustrated or bored and stops trying, the tester shall reassure the child and gently encourage the child to keep trying (e.g., "please try to spray").
13. The children shall be allowed freedom of movement to work on their packages as long as the tester can watch both children (e.g., they can stand up, get down on the floor, or bang or pry the package).

14. If a child is endangering himself or others at any time, the test shall be stopped and the pair of children eliminated from the final results.
15. The children shall be allowed to talk to each other about the packages and shall be allowed to watch each other try.
16. A child shall not be allowed to try the other child's package.
17. If a child successfully follows the instructions, the tester shall say, "THANK YOU," take the package from the child and put it out of the child's reach.
18. At the end of the 5-minute period, the tester shall demonstrate the action if either or both child/children has/have not succeeded in following the instructions. A separate "demo" package shall be used for the demonstration.
19. Prior to beginning the demonstration, the tester shall ask the children to set their packages aside. The children shall not be allowed to continue to try during the demonstration period.
20. The tester shall use the specific language and actions for the demonstration provided by the CPSC Project Officer for the specific test in progress.
21. Once the tester gets the children's full attention, the tester shall hold the demo package approximately two feet from the children and demonstrate the correct action(s) at a normal speed. There shall be no exaggerated movements.
22. The tester shall not discuss or describe the action beyond the language specified by the Project Officer for each test.
23. To begin the second 5-minute period, the tester shall use the language specified by the CPSC Project Officer.

24. If one or both children have not used their teeth during the first 5 minutes, the tester shall say immediately before beginning the second 5-minute period, "YOU CAN USE YOUR TEETH IF YOU WANT TO." This is the only statement that the tester shall make about using teeth.
25. The test shall continue for an additional 5 minutes or until both children have successfully followed the instructions, whichever comes first. If a child is successful, the tester shall record the time by adding the time to the first five (5) minutes test period. For example, if a child is successful one (1) minute into the second testing period, the tester shall record $300 + 60 = 360$ seconds.
26. At the end of the test period if the child/children have been unable to complete the task as asked, the tester shall record 601 seconds on the data sheet.
27. Then, the tester shall say, "THANK YOU FOR HELPING." If the children were told to use their teeth, the tester shall say, "I KNOW I TOLD YOU THAT YOU COULD USE YOUR TEETH TODAY, BUT YOU SHOULD NOT PUT THINGS LIKE THIS IN YOUR MOUTH AGAIN." In addition, the tester shall say, "NEVER PLAY WITH PACKAGES LIKE THIS WHEN YOU ARE BY YOURSELF. THIS KIND OF PACKAGE MIGHT HAVE SOMETHING IN IT THAT WOULD MAKE YOU SICK."

4) REPORTING REQUIREMENTS

a) Recordkeeping Requirements

The tester shall record all data collected during testing on the data sheets (Attachment D) and the consent forms (Attachment A). Data to be collected will be specified for each test plan. The CPSC Project Officer will not accept any record that does not meet the requirements. Unacceptable records will require testing of additional packages to replace unacceptable ones.

- i) All records shall be completed at the test site in black ballpoint pen or black felt tipped pen.
- ii) all records shall be clearly legible.

- iii) Only the tester conducting the test shall write on, or correct the corresponding records.
- iv) Records shall be filled in prior to, or after the test - NOT DURING THE TEST PERIOD (The only EXCEPTION is to record the test times for completion of the specified action).
- v) Any change to any record shall only be made by drawing a single line through the error, writing the correction to the error, and then immediately initialing and dating the change.
- v) If information is missing from a record, the tester shall obtain the missing information, fill it in, initial and date the added information, and write a notation as to how the information was obtained (e.g., a birth date on the child's consent form may be obtained from the school).

b) Database

The Contractor shall accurately transcribe data from the data sheets into an Excel spreadsheet with fields as specified in Attachment E. A spreadsheet template will be supplied by the project officer on a disc. Electronic data, on a CD-R disk, shall be submitted after each test is completed as described below in section 4d.

c) Progress Report

A progress report shall be submitted on a weekly basis after the first week of testing. Progress reports shall include; the Contractor number, the test number, the sample number, the package numbers completed, the age group and sex of the children. The reports can be a copy of the spreadsheets. Progress reports for the previous week's testing shall be faxed or e-mailed no later than Tuesday of each week. **Copies of data sheets completed during the previous week shall be submitted with the weekly progress reports.** The data sheets and spreadsheets shall be proofread to make sure they are correct. Age calculations shall be verified prior to

submission. When corrections are made to data sheets that have already been submitted to the Project Officer, the Project Officer shall be notified by telephone or e-mail on the day the correction is made and a corrected copy shall be faxed that day.

d) Final Report

Within 7 calendar days following completion of each test, the offeror shall submit the original data sheets, original consent forms, and VHS videotape in addition to the CD-R with the database described in section 4b.

5) PERIOD OF PERFORMANCE

The period of performance of this contract shall begin on the effective date of this contract and shall continue for no longer than 12 months.

6) DELIVERY OR PERFORMANCE REQUIREMENTS

a. Schedule

The following items shall be performed or delivered in accordance with the following schedule:

#	ITEM	QUANTITY	DELIVERY OR PERFORMANCE
1	Conference Call		No later than September 30, 2005
2	Child Tests	Each Test	Each test is to be completed within thirty (30) calendar days after the first day of testing.
3	Weekly Progress Report	1 report/week	Begin after the first week of testing and submitted on Tuesday of each week
4	Final report	1 CD-R with database and original data sheets, consent forms, and videotape/test	Within 7 calendar days after completing a test.
5	Sample Return	Each	After completion of testing as directed by Project Officer.

b. Place of Delivery or Performance

Items specified in 6a., Schedule, shall be mailed or delivered to:

U.S. Consumer Product Safety Commission
Division of Health Sciences, Room 600
4330 East West Highway
Bethesda, MD 20814
ATTN: John Boja, Project Officer

jboja@cpsc.gov

A copy of the cover letter transmitting the items specified in above shall be submitted to the Contracting Officer.

7) Inspection and Acceptance Period

- a. All materials submitted for approval will be reviewed by the CPSC project officer within seven (7) working days after date of receipt.
- b. Acceptance/rejection will be transmitted to the Contractor by the CPSC Project Officer, in writing, within seven (7) calendar days after date of receipt.
- c. Acceptance/rejection will be based on conformance with the STATEMENT OF WORK and the REPORTING REQUIREMENTS.
- d. Upon submission of any contract deliverable, including reports specified in section 4., REPORTING REQUIREMENTS, the Contractor shall submit to the Contracting Officer a copy of the dated cover letter transmitting such deliverable.

8) Government Furnished Materials/Equipment

- a. All samples to be tested will be supplied by the project officer.
- b. Template of electronic spreadsheet fields on disc.
- c. ATTACHMENTS as follows:
 - A. Sample Child Consent Form
 - B. Method for Age Calculation of Children
 - C. Test Instructions
 - D. Child Data Sheet and Test Codes
 - E. Database Fields

9) HUMAN SUBJECTS

- a. Safe guarding the rights and welfare of human subjects involved in activities supported by contracts from the Consumer Product Safety Commission (CPSC) is the responsibility of the organization which receives or is accountable to the CPSC for the funds awarded for the support of the activity. Thus, it is the policy of the Commission that no contract for an activity involving human subjects shall be made unless the Contractor's Institutional Assurance has been reviewed and approved by the appropriate CPSC committee (see CPSC's regulation for Protection of Human subjects 16 CFR Part 1028).
- b. The Contractor shall bear full responsibility for the performance of all work and services involving the use of human subjects under this contract in a proper manner and as safely as is feasible. The parties hereto agree that the Contractor retains the right to control and direct the performance of all work under this contract. No provision of this contract shall be deemed to constitute the Contractor or any subcontractor, agent or employee of the Contractor, or any other person, organization, institution, or group of any kind whatsoever, as the agent or employee of the Government. The Contractor agrees that it has entered into this contract and will discharge its obligations, duties and undertakings as an independent Contractor without unpitying liability on the part of the Government for the acts of the Contractor or its employees.
- c. The Offeror is required to furnish three copies of its current Institutional Assurance to the U.S. Consumer Product Safety Commission, Contracts Branch with their proposal. If the Offeror does not have an Institutional Assurance, it shall furnish two copies of its policy on the protection of human. The Commission may approve the Offeror's policy as a Special Assurance for the purpose of this contract.

52.212-4 Contract Terms and Conditions - Commercial Items. (OCT 2003)

52.212-5 Contract Terms and Conditions Required to Implement Statutes or Executive Orders - Commercial Items. (JUL 2005)

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses, which are incorporated in this contract by reference, to implement provisions of law or Executive orders applicable to acquisitions of commercial items:

☐ (1) 52.233-3, Protest After Award (AUG 1996) (31 U.S.C. 3553).

☐ (2) 52.233-4, Applicable Law for Breach of Contract Claim (OCT 2004) (Pub. L. 108-77, 108-78).

(b) The Contractor shall comply with the FAR clauses in this paragraph (b) that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items: [*Contracting Officer check as appropriate.*]

☐ (1) 52.203-6, Restrictions on Subcontractor Sales to the Government (JUL 1995), with Alternate I (OCT 1995) (41 U.S.C. 253g and 10 U.S.C. 2402).

☐ (2) 52.219-3, Notice of Total HUBZone Set-Aside (JAN 1999) (15 U.S.C. 657a).

☐ (3) 52.219-4, Notice of Price Evaluation Preference for HUBZone Small Business Concerns (JUL 2005) (if the offeror elects to waive the preference, it shall so indicate in its offer) (15 U.S.C. 657a).

☐ (4)(i) 52.219-5, Very Small Business Set-Aside (JUN 2003) (Pub. L. 103-403, section 304, Small Business Reauthorization and Amendments Act of 1994).

☐ (ii) Alternate I (MAR 1999) of 52.219-5.

☐ (iii) Alternate II (JUN 2003) of 52.219-5.

☐ (5)(i) 52.219-6, Notice of Total Small Business Set-Aside (JUN 2003) (15 U.S.C. 644).

☐ (ii) Alternate I (OCT 1995) of 52.219-6.

☐ (iii) Alternate II (MAR 2004) of 52.219-6.

☐ (6)(i) 52.219-7, Notice of Partial Small Business Set-Aside (JUN 2003) (15 U.S.C. 644).

☐ (ii) Alternate I (OCT 1995) of 52.219-7.

☐ (iii) Alternate II (MAR 2004) of 52.219-7.

☐ (7) 52.219-8, Utilization of Small Business Concerns (MAY 2004) (15 U.S.C. 637(d)(2) and (3)).

☐ (8)(i) 52.219-9, Small Business Subcontracting Plan (JUL 2005) (15 U.S.C. 637(d)(4)).

☐ (ii) Alternate I (OCT 2001) of 52.219-9.

☐ (iii) Alternate II (OCT 2001) of 52.219-9.

☐ (9) 52.219-14, Limitations on Subcontracting (DEC 1996) (15 U.S.C. 637(a)(14)).

☐ (10)(i) 52.219-23, Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns (JUL 2005) (Pub. L. 103-355, section 7102, and 10 U.S.C. 2323) (if the offeror elects to waive the adjustment, it shall so indicate in its offer).

☐ (ii) Alternate I (JUN 2003) of 52.219-23.

☐ (11) 52.219-25, Small Disadvantaged Business Participation Program - Disadvantaged Status and Reporting (OCT 1999) (Pub. L. 103-355, section 7102, and 10 U.S.C. 2323).

☐ (12) 52.219-26, Small Disadvantaged Business Participation Program - Incentive Subcontracting (OCT 2000) (Pub. L. 103-355, section 7102, and 10 U.S.C. 2323).

☐ (13) 52.219-27, Notice of Total Service-Disabled Veteran-Owned Small Business Set-Aside (May 2004).

☒ (14) 52.222-3, Convict Labor (JUN 2003) (E.O. 11755).

☐ (15) 52.222-19, Child Labor - Cooperation with Authorities and Remedies (JUN 2004) (E.O. 13126).

☒ (16) 52.222-21, Prohibition of Segregated Facilities (FEB 1999).

☒ (17) 52.222-26, Equal Opportunity (APR 2002) (E.O. 11246).

☒ (18) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (DEC 2001) (38 U.S.C. 4212).

☒ (19) 52.222-36, Affirmative Action for Workers with Disabilities (JUN 1998) (29 U.S.C. 793).

☒ (20) 52.222-37, Employment Reports on Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (DEC 2001) (38 U.S.C. 4212).

☐ (21) 52.222-39, Notification of Employee Rights Concerning Payment of Union Dues or Fees (DEC 2004) (E.O. 13201).

☐ (22)(i) 52.223-9, Estimate of Percentage of Recovered Material Content for EPA-Designated Products (AUG 2000) (42 U.S.C. 6962(c)(3)(A)(ii)).

☐ (ii) Alternate I (AUG 2000) of 52.223-9 (42 U.S.C. 6962(i)(2)(C)).

☐ (23) 52.225-1, Buy American Act - Supplies (JUN 2003) (41 U.S.C. 10a-10d).

☐ (24)(i) 52.225-3, Buy American Act--Free Trade Agreements-- Israeli Trade Act (Jan 2005) (41 U.S.C. 10a-10d, 19 U.S.C. 3301 note, 19 U.S.C. 2112 note, Pub. L. 108-77, 108-78, 108-286).

☐ (ii) Alternate I (JAN 2004) of 52.225-3.

☐ (iii) Alternate II (JAN 2004) of 52.225-3.

[](25) 52.225-5, Trade Agreements (Jan 2005) (19 U.S.C. 2501, et seq., 19 U.S.C. 3301 note).

[](26) 52.225-13, Restrictions on Certain Foreign Purchases (MAR 2005) (E.o.s, proclamations, and statutes administered by the Office of Foreign Assets Control of the Department of the Treasury).

[](27) 52.225-15, Sanctioned European Union Country End Products (FEB 2000) (E.O. 12849).

[](28) 52.225-16, Sanctioned European Union Country Services (FEB 2000) (E.O. 12849).

[](29) 52.232-29, Terms for Financing of Purchases of Commercial Items (FEB 2002) (41 U.S.C. 255(f), 10 U.S.C. 2307(f)).

[](30) 52.232-30, Installment Payments for Commercial Items (OCT 1995) (41 U.S.C. 255(f), 10 U.S.C. 2307(f)).

[X](31) 52.232-33, Payment by Electronic Funds Transfer - Central Contractor Registration (OCT 2003) (31 U.S.C. 3332).

[](32) 52.232-34, Payment by Electronic Funds Transfer - Other than Central Contractor Registration (MAY 1999) (31 U.S.C. 3332).

[](33) 52.232-36, Payment by Third Party (MAY 1999) (31 U.S.C. 3332).

[](34) 52.239-1, Privacy or Security Safeguards (AUG 1996) (5 U.S.C. 552a).

[](35)(i) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (APR 2003) (46 U.S.C. Appx 1241 and 10 U.S.C. 2631).

[](ii) Alternate I (APR 2003) of 52.247-64.

(c) The Contractor shall comply with the FAR clauses in this paragraph (c), applicable to commercial services, that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items: [*Contracting Officer check as appropriate.*]

[](1) 52.222-41, Service Contract Act of 1965, as Amended (JUL 2005) (41 U.S.C. 351, et seq.).

[](2) 52.222-42, Statement of Equivalent Rates for Federal Hires (MAY 1989) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).

[](3) 52.222-43, Fair Labor Standards Act and Service Contract Act--Price Adjustment (Multiple Year and Option Contracts) (MAY 1989) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).

[](4) 52.222-44, Fair Labor Standards Act and Service Contract Act--Price Adjustment (FEB 2002) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).

[](5) 52.222-47, SCA Minimum Wages and Fringe Benefits Applicable to Successor Contract Pursuant to Predecessor Contractor Collective Bargaining Agreements (CBA) (MAY 1989) (41 U.S.C. 351, et seq.).

(d) *Comptroller General Examination of Record.* The Contractor shall comply with the provisions of this paragraph (d) if this contract was awarded using other than sealed bid, is in excess of the simplified acquisition threshold, and does not contain the clause at 52.215-2, Audit and Records - Negotiation.

(1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to and right to examine any of the Contractor's directly pertinent records involving transactions related to this contract.

(2) The Contractor shall make available at its offices at all reasonable times the records, materials, and other evidence for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in FAR Subpart 4.7, Contractor Records Retention, of the other clauses of this contract. If this contract is completely or partially terminated, the records relating to the work terminated shall be made available for 3 years after any resulting final termination settlement. Records relating to appeals under the disputes clause or to litigation or the settlement of claims arising under or relating to this contract shall be made available until such appeals, litigation, or claims are finally resolved.

(3) As used in this clause, records include books, documents, accounting procedures and practices, and other data, regardless of type and regardless of form. This does not require the Contractor to create or maintain any record that the Contractor does not maintain in the ordinary course of business or pursuant to a provision of law.

(e)(1) Notwithstanding the requirements of the clauses in paragraphs (a), (b), (c), and (d) of this clause, the Contractor is not required to flow down any FAR clause, other than those in paragraphs (i) through (vii) of this paragraph in a subcontract for commercial items. Unless otherwise indicated below, the extent of the flow down shall be as required by the clause--

(i) 52.219-8, Utilization of Small Business Concerns (MAY 2004) (15 U.S.C. 637(d)(2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$500,000 (\$1,000,000 for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.

(ii) 52.222-26, Equal Opportunity (APR 2002) (E.O. 11246).

(iii) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (DEC 2001) (38 U.S.C. 4212).

(iv) 52.222-36, Affirmative Action for Workers with Disabilities (JUN 1998) (29 U.S.C. 793).

(v) 52.222-39, Notification of Employee Rights Concerning Payment of Union Dues or Fees (DEC 2004) (E.O. 13201).

(vi) 52.222-41, Service Contract Act of 1965, as Amended (JUL 2005), flow down required for all subcontracts subject to the Service Contract Act of 1965 (41 U.S.C. 351, et seq.).

(vii) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (APR 2003) (46 U.S.C. Appx 1241 and 10 U.S.C. 2631). Flow down required in accordance with paragraph (d) of FAR clause 52.247-64.

(2) While not required, the contractor may include in its subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

(End of clause)

52.000-1 A CONTRACTOR'S NOTE - DELIVERIES TO HEADQUARTERS

Deliveries and/or shipments shall not be left at the Loading Dock. All deliveries shall be considered "inside deliveries" to the appropriate room at the Consumer Product Safety Commission (CPSC) and in accordance with the instructions below. When scheduling deliveries the purchase order number shall always be referenced and all packages shall clearly display the Purchase Order Number on the outside of the cartons and/or packages, to include the packing slip.

ATTENTION GOVERNMENT VENDOR

a. DELIVERY INSTRUCTIONS FOR LARGE OR HEAVY ITEMS:

If the shipment or item being delivered requires use of a loading dock, advance notification is required. The contractor shall contact Mr. Arliss Butler, Shipping and Receiving Coordinator at (240) 882-6386 or Mr. Ray Garcia, Property Management Officer at (301) 504-0666 ext 1144, forty-eight (48) hours in advance of the date the items are to arrive to schedule use of the loading dock.

LOADING DOCK HOURS OF OPERATION: 9:00 am to 11:00 am or 1:30 pm to 4:00 pm, Monday through Friday (except holidays)

Please notify contact person if there is a change in the delivery date. For changes, delays, or assistance please contact CPSC as follows:

Administrative Services (301) 504-7113

Procurement Services (301) 504-7927

Upon arrival, the driver should use the intercom box at the loading dock to obtain assistance in using freight elevators and to gain access to CPSC security areas.

b. DELIVERY INSTRUCTION FOR SMALL ITEMS

When delivering or shipping small items, the contractor and/or carrier service shall report to the 4th floor lobby, North Tower, 4330 East West Highway, to sign in with the CPSC guard. Upon completion of signing in, the contractor shall deliver all shipments to the Mail Room, Room 516. After delivery, delivery personnel shall promptly depart the building.

MAIL ROOM HOURS OF OPERATION: Monday through Friday (except holidays) - 7:30 am to 5:00 pm

c. BILLING INSTRUCTIONS: At a minimum, each invoice shall include:

1. The name and address of the business concern (and separate remittance address, if applicable).
2. Taxpayer Identification Number (TIN).
3. Invoice date (use of invoice number in addition to invoice date is prudent but not required).
4. The contract number and delivery/task order number, as appropriate, or purchase order number (see block 2 of OF347 and block 4 of SF1449 on page 1 of this order), or other authorization for delivery of goods or services.
5. Description, price and quantity of goods or services actually delivered or rendered.

6. Shipping cost terms (if applicable).
7. Payment terms.
8. ACH Vendor Information which includes the Financial Institution, routing transit number, and depositor account number. In addition please specify whether account is a checking account or savings account.
9. Other substantiating documentation or information as specified in the contract or purchase order.
10. Name (where practicable), title, phone number and mailing address of responsible official to be notified in the event of a deficient invoice.
11. ORIGINAL VOUCHERS/INVOICES SHALL BE SENT TO THE PAYMENT ADDRESS indicated on page one of this document.

Invoices not submitted in accordance with the above stated minimum requirements will not be processed for payment. Deficient invoices will be returned to the vendor within seven days or sooner. Standard forms 1034 and 1035 will be furnished by CPSC upon request of the contractor. Inquiries regarding payment should be directed to the Finance Office at 301-504-7172 or 301-504-7130.

d. ALL OTHER INFORMATION RELATING TO THE PURCHASE ORDER:

Contact: Mrs. Kim Miles
Contract Specialist at (301) 504-7018]

e. PROCESSING INSTRUCTIONS FOR REQUESTING OFFICES

The Purchase Order/Receiving Report (Optional Form 347 or Standard Form 1449) must be completed at the time the ordered goods or services are received. Upon receipt of the goods or services ordered, each item should be inspected, accepted (partial or final) or rejected. The Purchase Order/Receiving Report must be appropriately completed, signed and dated by the authorized receiving official. In addition, the acceptance block shall be completed (Blocks 32 a, b & c on the SF 1449 and column G and page 2 of the OF 347).

The receiving report shall be retained by the requesting office for confirmation when certifying invoices.

f. PROPERTY/EQUIPMENT PURCHASES

In the case of Purchase Orders/Receiving Reports involving the purchase and receipt of property/equipment, a copy of the Purchase Order/Receiving Report must also be immediately forwarded directly to the Property Management Officer in the Division of Administrative Services. The transmittal of Purchase Orders/Receiving Reports to the property management officer is critical to the integrity and operation of CPSC's Property Management System. Receiving officials should also forward copies to their local property officer/property custodian consistent with local office procedures.

ATTACHMENT A

SAMPLE CHILD CONSENT FORM

(Contractor's Letterhead)
CHILD-RESISTANT PACKAGING TESTING

Dear Parents:

The U.S. Consumer Product Safety Commission (CPSC) is responsible for testing child-resistant packages to make sure they protect young children from dangerous household products. Effective child-resistant caps have prevented many poisonings since the Poison Prevention Packaging Act was passed in 1970.

This program involves testing children between 3 1/2 - 4 1/4 years old with the voluntary consent of their parents. The following will happen during the test.

- The children will be videotaped for internal use by the CPSC staff.
- Children are tested in pairs (2 children together).
- They will each be given a trigger sprayer bottle containing water and asked to try to open it or spray it.
- We will watch them very carefully for 5 minutes.
- If the children do not succeed in the first 5 minutes, we demonstrate the action in front of the children (as they would see you use the product at home).
- If children have not used their teeth we tell the children they can use their teeth if they want to.
- We watch the children very carefully for another 5 minutes.
- We then thank the children for helping and tell them never to open packages on their own.

The CPSC has been sponsoring the voluntary testing of child-resistant caps for many years with no injuries to anyone, although it is possible that a minor injury, such as a cut or scrape, could occur. First aid will be available if this happens. If the program supervisor believes that a child may get hurt, the program will be stopped immediately.

If you have any questions, please feel free to call me at _____. Your child's participation is important in helping us to prevent needless accidental poisonings.

Sincerely,

CONSENT FORM FOR CHILD-RESISTANT SPRAYER TESTING PROGRAM

I have read the program description and I agree to allow my child to participate. I agree to allow my child to be videotaped. I understand that I may withdraw my child's participation in this testing at any time.

Parent's signature _____ Date _____

Child's Name _____

Child's Birthdate _____

Home Zip Code _____

ATTACHMENT B

METHOD FOR AGE CALCULATION OF CHILDREN

Child Age Calculation

The children's ages in months shall be calculated as follows:

- (1) Arrange the birth date and test date by the numerical designations for month, day, and year (e.g., test date: 8/3/1990; birth date: 6/23/1986).
- (2) Subtract the month, day, and year numbers for the birth date from the respective numbers for the test date. This may result in negative numbers for the months or days. Example:

$$\begin{array}{r} 8 / 03 / 1990 \\ - 6 / 23 / 1986 \\ \hline 2 \quad -20 \quad 4 \end{array}$$

- (3) Multiply the difference in years by 12 to obtain the number of months in the difference in years, and add this value to the number of months that was obtained when the birth date was subtracted from the test date (i.e., $4 \times 12 = 48$; $48 + 2 = 50$). This figure either will remain the same or be adjusted up or down by 1 month, depending on the number of days obtained in the subtraction of the birth date from the test date.
- (4) If the number of days obtained by subtracting the days in the birth date from the days in the test date is +16 or more, 1 month is added to the number of months obtained above. If the number of days is -16 or less, subtract 1 month. If the number of days is between -15 and +15 inclusive, no change is made in the number of months. Thus, for the example given above, the number of days is -20, and the number of months is therefore $50 - 1 = 49$ months.

ATTACHMENT C

TEST INSTRUCTIONS

Spray Bottle Test A • Open/Younger

Note to Testers: This test is part of a study of how children interact with spray containers. The procedures below are different from those used to test packaging. Please read and follow them exactly as given.

Sample Preparation and Handling

1. Use the samples labeled A1 through A12 for the test. Give each child a different sample – do not re-use them. Use the sample labeled A for the demonstration. The sprayer tubes for these samples will be blocked.

NOTE: There are extra samples in case they are needed, so you may have some left over.

2. Fill the samples, including the demonstration sample, with 6.25 inches of water, which is the level of the ridge molded into the bottle (see the attached figure for the fill line).
3. Make sure the sprayer tubes are pushed all the way into the stoppers. Insert a tube into each bottle until the stopper is flush with the edge of the opening.
4. Put the closures (see attached figure) on the bottles and tighten them to a torque of 12 in-lb. Check to make sure that you can remove the closure on demonstration sample A, then tighten it to the specified torque. If you cannot open the closure, use a lower level of torque until you can comfortably remove it for the demonstration.
5. Turn each sample upside down and squeeze it twice. If any sample leaks, do not use it for testing. Report the problem immediately so that CPSC can send additional samples if they are needed.
6. It's important to wait at least 72 hours let the closures "take a set" before using these samples in a test. Handle the bottles so that they will not be jarred or damaged during storage or transportation. Do not expose them to extreme heat or cold. Test them at room temperature.
7. Weigh the samples before and after the test. Record the weights to within 0.1 gm on the data collection sheets.

Spray Bottle Test / Open/Younger

Child Test Participants

1. Ten (10) children age 42-44 months will be tested. Calculate the children's ages in months as described in Attachment B.
2. Do not include any child who has tested other child-resistant packaging.
3. Do not test any children who are ill, injured, or handicapped in any way that would interfere with their ability to participate in the test.
4. You must have a parent or guardian read and sign a consent form for each child before starting the test (Attachment A).
5. Half of the children tested will be male and half female.

Procedure

1. Test the children in pairs.
2. Check audio/video equipment before testing each pair of children. Be sure that both children are in view, and that both the children and the tester can be heard clearly on the tape.
3. Escort each pair of children to the test area, or have another adult escort them. Seat the two children so that there is no visual barrier between them and you.
4. Talk to the children to make them feel at ease.
5. Avoid giving the children the impression that they are in a race or contest. Do not tell them that the test is a game or that it is fun. Do not offer them a reward.
6. Record all data before or after the test so that you can give your full attention to the children during the test.
7. Use a stopwatch(s) or other timing device to time the two test periods.

Spray Bottle Test .^ Open/Younger

8. Before starting the test, get the children's attention by saying, "Okay children, we're ready to start. Look at me."
9. To begin, place an identical bottle in front of each child and say,
"Please try to open this for me."
10. After the first 60 seconds, if either one of the children has not tried to open the bottle by unscrewing the closure at the neck, prompt them by repeating the instruction, **"Please try to open this for me."**
Record the prompt on the coding sheet.
11. If a child becomes frustrated or bored and refuses to participate during the remaining time, be reassuring and occasionally encourage him or her to continue trying using any of the following prompts:

"Please keep trying."

"Please continue."

"Keep trying for me."

"I still need your help."

Record each time a prompt is used on the data sheet using hatch marks. Regardless of what the children are doing, do not repeat the instruction to open.

Refusal includes doing something other than what you have asked the children to do, such as trying to spray, or banging the bottle on the floor, rather than trying to open it.

If the child continues to refuse, ask the child to hold the bottle in his/her lap until the other child is finished. Do **not** eliminate this pair of children from the results unless the refusing child disrupts the participation of the other child.

12. Give each child up to 5 minutes to respond correctly to the instructions.
13. Watch the children at all times during the test. Minimize conversation with the children as long as they continue to try to follow the instructions. Do not discourage the children verbally or with facial expressions. Let the children move about freely within camera range to

Spray Bottle Test / Open/Younger

work on their bottles as long as you can watch both of them (e.g., they can stand up, get down on the floor, or pry open the bottle).

14. If a child is endangering himself or others at any time, stop the test. Eliminate the pair from the results.
15. Allow the children to talk to each other about the bottles and watch each other try.
16. Do not let one child try to open the other child's bottle.
17. If a child opens the closure, or damages the closure or bottle so that the water can spill, say, **"Thank you,"** take the bottle from the child and put it out of reach. Do not ask the child to open the bottle a second time.

NOTE: Do not stop the test because the bottle is leaking unless the leak is clearly a result of the child opening the closure, or damaging the closure or bottle.

18. If after 5 minutes either one or both of the children have not succeeded, demonstrate (see 19.) the correct action (open the closure at the neck). Use Sample A to demonstrate.
19. Before starting the demonstration, ask the children to set their bottles aside. Do not let the children keep trying while you demonstrate.
20. Make sure the children are watching and can see your hands. Hold the demo bottle approximately two feet from the children and say, **"Watch me open my bottle."**
21. Remove the closure from the neck at a normal speed without exaggerating the actions. Then replace the closure and set the bottle aside out of the children's reach.
22. Do not discuss or describe the action beyond the language specified above.

Spray Bottle Test / Open/Younger

23. Start the second 5-minute period by saying, **"Now you try to open your bottles."** If one or both children have not used their teeth during the first 5 minutes, immediately say, **"You can use your teeth if you want to."** Do not say anything else about the children using their teeth. DO NOT do anything (such as frowning or shaking your head) or say anything that might discourage them from using their teeth.
24. As in the first part of the test, if a child becomes frustrated or bored and refuses to participate during the remaining time, be reassuring and occasionally encourage him or her to continue trying using any of the following prompts:

"Please keep trying."

"Please continue."

"Keep trying for me."

"I still need your help."

Record each time a prompt is used on the data sheet using hatch marks. Regardless of what the children are doing, do not repeat the instruction to open.

25. If the child continues to refuse, ask the child to hold the bottle in his/her lap until the other child is finished. Do **not** eliminate this pair of children from the results unless the refusing child disrupts the participation of the other child.
26. Continue the test for 5 more minutes, or until both children have opened the closure or otherwise accessed the water (see 16.), whichever comes first. If a child is successful, record the time by adding it to the first 5-minute test period. For example, if a child is successful one (1) minute into the second testing period, record $300 + 60 = 360$ seconds.
27. At the end of the test if either of the children have been unable to open the closure or access the water, record 601 seconds on the data sheet.

Spray Bottle Test / Open/Younger

28. To end the test say, **"Thank you for helping. Never play with bottles like this when you are by yourself. This kind of bottle might have something in it that would make you sick."** If the children were told to use their teeth, say, **"I know I told you that you could use your teeth today, but you should never put things like this in your mouth again."**

Spray Bottle Test ^r Open/Older

Note to Testers: This test is part of a study of how children interact with spray containers. The procedures below are different from those used to test packaging. Please read and follow them exactly as given.

Sample Preparation and Handling

1. Use the samples labeled B1 through B12 for the test. Give each child a different sample – do not re-use them. Use the sample labeled B for the demonstration. The sprayer tubes for these samples will be blocked.

NOTE: There are extra samples in case they are needed, so you may have some left over.

2. Fill the samples, including the demonstration sample, with 6.25 inches of water, which is the level of the ridge molded into the bottle (see the attached figure for the fill line).
3. Make sure the sprayer tubes are pushed all the way into the stoppers. Insert a tube into each bottle until the stopper is flush with the edge of the opening.
4. Put the closures (see attached figure) on the bottles and tighten them to a torque of 12 in-lb. Check to make sure that you can remove the closure on demonstration sample A, then tighten it to the specified torque. If you cannot open the closure, use a lower level of torque until you can comfortably remove it for the demonstration.
5. Turn each sample upside down and squeeze it twice. If any sample leaks, do not use it for testing. Report the problem immediately so that CPSC can send additional samples if they are needed.
6. It's important to wait at least 72 hours let the closures "take a set" before using these samples in a test. Handle the bottles so that they will not be jarred or damaged during storage or transportation. Do not expose them to extreme heat or cold. Test them at room temperature.
7. Weigh the samples before and after the test. Record the weights to within 0.1 gm on the data collection sheets.

Child Test Participants

Spray Bottle Test 3: Open/Older

1. Ten (10) children age 49-51 months will be tested. Calculate the children's ages in months as described in Attachment B.
2. Do not include any child who has tested other child-resistant packaging.
3. Do not test any children who are ill, injured, or handicapped in any way that would interfere with their ability to participate in the test.
4. You must have a parent or guardian read and sign a consent form for each child before starting the test (Attachment A).
5. Half of the children tested will be male and half female.

Procedure

1. Test the children in pairs.
2. Check audio/video equipment before testing each pair of children. Be sure that both children are in view, and that both the children and the tester can be heard clearly on the tape.
3. Escort each pair of children to the test area, or have another adult escort them. Seat the two children so that there is no visual barrier between them and you.
4. Talk to the children to make them feel at ease.
5. Avoid giving the children the impression that they are in a race or contest. Do not tell them that the test is a game or that it is fun. Do not offer them a reward.
6. Record all data before or after the test so that you can give your full attention to the children during the test.
7. Use a stopwatch(s) or other timing device to time the two test periods.
8. Before starting the test, get the children's attention by saying, "Okay children, we're ready to start. Look at me."

Spray Bottle Test 2: Open/Older

9. To begin, place an identical bottle in front of each child and say,
"Please try to open this for me."
10. After the first 60 seconds, if either one of the children has not tried to open the bottle by unscrewing the closure at the neck, prompt them by repeating the instruction, **"Please try to open this for me."**
Record the prompt on the coding sheet.
11. If a child becomes frustrated or bored and refuses to participate during the remaining time, be reassuring and occasionally encourage him or her to continue trying using any of the following prompts:

"Please keep trying."

"Please continue."

"Keep trying for me."

"I still need your help."

Record each time a prompt is used on the data sheet using hatch marks. Regardless of what the children are doing, do not repeat the instruction to open.

Refusal includes doing something other than what you have asked the children to do, such as trying to spray, or banging the bottle on the floor, rather than trying to open it.

If the child continues to refuse, ask the child to hold the bottle in his/her lap until the other child is finished. Do **not** eliminate this pair of children from the results unless the refusing child disrupts the participation of the other child.

12. Give each child up to 5 minutes to respond correctly to the instructions.
13. Watch the children at all times during the test. Minimize conversation with the children as long as they continue to try to follow the instructions. Do not discourage the children verbally or with facial expressions. Let the children move about freely within camera range to work on their bottles as long as you can watch both of them (e.g., they can stand up, get down on the floor, or pry open the bottle).

Spray Bottle Test 3: Open/Older

14. If a child is endangering himself or others at any time, stop the test. Eliminate the pair from the results.
15. Allow the children to talk to each other about the bottles and watch each other try.
16. Do not let one child try to open the other child's bottle.
17. If a child opens the closure, or damages the closure or bottle so that the water can spill, say, **"Thank you,"** take the bottle from the child and put it out of reach. Do not ask the child to open the bottle a second time.

NOTE: Do not stop the test because the bottle is leaking unless the leak is clearly a result of the child opening the closure, or damaging the closure or bottle.

18. If after 5 minutes either one or both of the children have not succeeded, demonstrate (see 19.) the correct action (open the closure at the neck). Use Sample A to demonstrate.
19. Before starting the demonstration, ask the children to set their bottles aside. Do not let the children keep trying while you demonstrate.
20. Make sure the children are watching and can see your hands. Hold the demo bottle approximately two feet from the children and say, **"Watch me open my bottle."**
21. Remove the closure from the neck at a normal speed without exaggerating the actions. Then replace the closure and set the bottle aside out of the children's reach.
22. Do not discuss or describe the action beyond the language specified above.
23. Start the second 5-minute period by saying, **"Now you try to open your bottles."** If one or both children have not used their teeth during the first 5 minutes, immediately say, **"You can use your**

Spray Bottle Test 3: Open/Older

teeth if you want to." Do not say anything else about the children using their teeth. **DO NOT** do anything (such as frowning or shaking your head) or say anything that might discourage them from using their teeth.

24. As in the first part of the test, if a child becomes frustrated or bored and refuses to participate during the remaining time, be reassuring and occasionally encourage him or her to continue trying using any of the following prompts:

"Please keep trying."

"Please continue."

"Keep trying for me."

"I still need your help."

Record each time a prompt is used on the data sheet using hatch marks. Regardless of what the children are doing, do not repeat the instruction to open.

25. If the child continues to refuse, ask the child to hold the bottle in his/her lap until the other child is finished. Do **not** eliminate this pair of children from the results unless the refusing child disrupts the participation of the other child.
26. Continue the test for 5 more minutes, or until both children have opened the closure or otherwise accessed the water (see 16.), whichever comes first. If a child is successful, record the time by adding it to the first 5-minute test period. For example, if a child is successful one (1) minute into the second testing period, record $300 + 60 = 360$ seconds.
27. At the end of the test if either of the children have been unable to open the closure or access the water, record 601 seconds on the data sheet.

Spray Bottle Test 3: Open/Older

28. To end the test say, **"Thank you for helping. Never play with bottles like this when you are by yourself. This kind of bottle might have something in it that would make you sick."** If the children were told to use their teeth, say, **"I know I told you that you could use your teeth today, but you should never put things like this in your mouth again."**

Spray Bottle Test C: Spray/Younger

Note to Testers: This test is part of a study of how children interact with spray containers. The procedures below are different from those used to test packaging. Please read and follow them exactly as given.

Sample Preparation and Handling

1. Use the samples labeled C1 through C12 for this test. Give each child a different sample – do not re-use them. Use the sample labeled C for the demonstration.

NOTE: There are extra samples in case they are needed, so you may have some left over.

2. Fill the samples, including the demonstration sample, with 6.25 inches of water, which is the level of the ridge molded into the bottle (see the attached figure for the fill line).
3. Put the closures (see the attached figure) on the bottles and tighten them to a torque of 12 in-lb.
4. Check to make sure the nozzles are in the closed position marked with an "X" facing up on the tip. To avoid priming them, do not use the sprayers on these samples.
5. It's important to wait at least 72 hours let the closures "take a set" before using these samples in a test. Handle the bottles so that they will not be jarred or damaged during storage or transportation. Do not expose them to extreme heat or cold. Test them at room temperature.
6. Weigh the samples before and after the test. Record the weights to within 0.1 gm on the data collection sheets.

Child Test Participants

1. Ten (10) children age 42-44 months will be tested. Calculate the children's ages in months as described in Attachment B.
2. Do not include any child who has tested other child-resistant packaging.

Spray Bottle Test: Spray/Younger

3. Do not test any children who are ill, injured, or handicapped in any way that would interfere with their ability to participate in the test.
4. You must have a parent or guardian read and sign a consent form for each child before starting the test (Attachment A).
5. Half of the children tested will be male and half female.

Procedure

1. Test the children in pairs.
2. Check audio/video equipment before testing each pair of children. Be sure that both children are in view, and that both the children and the tester can be heard clearly on the tape.
3. Escort each pair of children to the test area, or have another adult escort them. Seat the two children so that there is no visual barrier between them and you.
4. Talk to the children to make them feel at ease.
5. Avoid giving the children the impression that they are in a race or contest. Do not tell them that the test is a game or that it is fun. Do not offer them a reward.
6. Record all data before or after the test so that you can give your full attention to the children during the test.
7. Use a stopwatch(s) or other timing device to time the two test periods.
8. Before starting the test, get the children's attention by saying, "Okay children, we're ready to start. Look at me."
9. To begin, place an identical bottle in front of each child and say,
"Please try to make this spray for me."

Spray Bottle Test: Spray/Younger

10. After the first 60 seconds, if either one of the children has not tried to spray, prompt them by repeating the instruction, **"Please try to make this spray for me."** Record the prompt on the coding sheet.
11. If a child becomes frustrated or bored and refuses to participate during the remaining time, be reassuring and occasionally encourage him or her to continue trying using any of the following prompts:

"Please keep trying."

"Please continue."

"Keep trying for me."

"I still need your help."

Record each time a prompt is used on the data sheet using hatch marks. Regardless of what the children are doing, do not repeat the instruction to spray.

Refusal includes doing something other than what you have asked the children to do, such as trying to open the neck closure, or banging the bottle on the floor, rather than trying to spray.

If the child continues to refuse, ask the child to hold the bottle in his/her lap until the other child is finished. Do **not** eliminate this pair of children from the results unless the refusing child disrupts the participation of the other child.

12. Give each child up to 5 minutes to respond correctly to the instructions.
13. Watch the children at all times during the test. Minimize conversation with the children as long as they continue to try to follow the instructions. Do not discourage the children verbally or with facial expressions.
14. Let the children move about freely within camera range to work on their bottles as long as you can watch both of them (e.g., they can stand up, get down on the floor, or pry open the nozzle).
15. If a child is endangering himself or others at any time, stop the test. Eliminate the pair from the results.

Spray Bottle Test C: Spray/Younger

16. Allow the children to talk to each other about the bottles and watch each other try.
17. Do not let one child try to use the other child's bottle.
18. If a child is able to spray water from the bottle, opens the closure, or damages the closure or bottle so that the water can spill, say, **"Thank you,"** take the bottle from the child and put it out of reach. Do not ask the child to spray a second time.

NOTE: Do not stop the test because the bottle is leaking unless the leak is clearly a result of the child opening the nozzle and spraying, opening the closure, or damaging the closure or bottle.

19. If after 5 minutes either one or both of the children have not succeeded, demonstrate (see 19.) the correct action (spraying water). Use Sample C to demonstrate.
20. Before starting the demonstration, ask the children to set their bottles aside. Do not let the children keep trying while you demonstrate.
21. Make sure the children are watching and can see your hands. Hold the demo bottle approximately two feet from the children and say, **"Watch me make my bottle spray."**
22. Press down the lock button (see figure) and turn the nozzle one-quarter turn to move from the "X" position to the spray position. Open the nozzle at a normal speed without exaggerating the actions. Pump the trigger until it sprays water, then set the bottle aside out of the children's reach.
23. Do not discuss or describe the action beyond the language specified above.
24. Start the second 5-minute period by saying, **"Now you try to make your bottles spray."** If one or both children have not used their teeth during the first 5 minutes, immediately say, **"You can use your teeth if you want to."** Do not say anything else about the children using their teeth. DO NOT do anything (such as frowning or

Spray Bottle Test ~: Spray/Younger

shaking your head) or say anything that might discourage them from using their teeth.

25. As in the first part of the test, if a child becomes frustrated or bored and refuses to participate during the remaining time, be reassuring and occasionally encourage him or her to continue trying using any of the following prompts:

"Please keep trying."

"Please continue."

"Keep trying for me."

"I still need your help."

Record each time a prompt is used on the data sheet using hatch marks. Regardless of what the children are doing, do not repeat the instruction to spray.

26. If the child continues to refuse, ask the child to hold the bottle in his/her lap until the other child is finished. Do **not** eliminate this pair of children from the results unless the refusing child disrupts the participation of the other child.
27. Continue the test for 5 more minutes, or until both children have sprayed or otherwise accessed the water (see 16.), whichever comes first. If a child is successful, record the time by adding it to the first 5-minute test period. For example, if a child is successful one (1) minute into the second testing period, record $300 + 60 = 360$ seconds.
28. At the end of the test, if either of the children have been unable to spray or access the water, record 601 seconds on the data sheet.
29. To end the test say, **"Thank you for helping. Never play with bottles like this when you are by yourself. This kind of bottle might have something in it that would make you sick."** If the children were told to use their teeth, say, **"I know I told you that you could use your teeth today, but you should never put things like this in your mouth again."**

Spray Bottle Test TM: Spray/Older

Note to Testers: This test is part of a study of how children interact with spray containers. The procedures below are different from those used to test packaging. Please read and follow them exactly as given.

Sample Preparation and Handling

1. Use the samples labeled D1 through D12 for this test. Give each child a different sample – do not re-use them. Use the sample labeled D for the demonstration.

NOTE: There are extra samples in case they are needed, so you may have some left over.

2. Fill the samples, including the demonstration sample, with 6.25 inches of water, which is the level of the ridge molded into the bottle (see the attached figure for the fill line).
3. Put the closures (see the attached figure) on the bottles and tighten them to a torque of 12 in-lb.
4. Check to make sure the nozzles are in the closed position marked with an "X" facing up on the tip. To avoid priming them, do not use the sprayers on these samples.
5. It's important to wait at least 72 hours let the closures "take a set" before using these samples in a test. Handle the bottles so that they will not be jarred or damaged during storage or transportation. Do not expose them to extreme heat or cold. Test them at room temperature.
6. Weigh the samples before and after the test. Record the weights to within 0.1 gm on the data collection sheets.

Child Test Participants

1. Ten (10) children age 49-51 months will be tested. Calculate the children's ages in months as described in Attachment B.
2. Do not include any child who has tested other child-resistant packaging.

Spray Bottle Test 2: Spray/Older

3. Do not test any children who are ill, injured, or handicapped in any way that would interfere with their ability to participate in the test.
4. You must have a parent or guardian read and sign a consent form for each child before starting the test (Attachment A).
5. Half of the children tested will be male and half female.

Procedure

1. Test the children in pairs.
2. Check audio/video equipment before testing each pair of children. Be sure that both children are in view, and that both the children and the tester can be heard clearly on the tape.
3. Escort each pair of children to the test area, or have another adult escort them. Seat the two children so that there is no visual barrier between them and you.
4. Talk to the children to make them feel at ease.
5. Avoid giving the children the impression that they are in a race or contest. Do not tell them that the test is a game or that it is fun. Do not offer them a reward.
6. Record all data before or after the test so that you can give your full attention to the children during the test.
7. Use a stopwatch(s) or other timing device to time the two test periods.
8. Before starting the test, get the children's attention by saying, "Okay children, we're ready to start. Look at me."
9. To begin, place an identical bottle in front of each child and say,
"Please try to make this spray for me."

Spray Bottle Test 2: Spray/Older

10. After the first 60 seconds, if either one of the children has not tried to spray, prompt them by repeating the instruction, **"Please try to make this spray for me."** Record the prompt on the coding sheet.
11. If a child becomes frustrated or bored and refuses to participate during the remaining time, be reassuring and occasionally encourage him or her to continue trying using any of the following prompts:

"Please keep trying."

"Please continue."

"Keep trying for me."

"I still need your help."

Record each time a prompt is used on the data sheet using hatch marks. Regardless of what the children are doing, do not repeat the instruction to spray.

Refusal includes doing something other than what you have asked the children to do, such as trying to open the neck closure, or banging the bottle on the floor, rather than trying to spray.

If the child continues to refuse, ask the child to hold the bottle in his/her lap until the other child is finished. Do **not** eliminate this pair of children from the results unless the refusing child disrupts the participation of the other child.

12. Give each child up to 5 minutes to respond correctly to the instructions.
13. Watch the children at all times during the test. Minimize conversation with the children as long as they continue to try to follow the instructions. Do not discourage the children verbally or with facial expressions.
14. Let the children move about freely within camera range to work on their bottles as long as you can watch both of them (e.g., they can stand up, get down on the floor, or pry open the nozzle).
15. If a child is endangering himself or others at any time, stop the test. Eliminate the pair from the results.

Spray Bottle Test 2: Spray/Older

16. Allow the children to talk to each other about the bottles and watch each other try.
17. Do not let one child try to use the other child's bottle.
18. If a child is able to spray water from the bottle, opens the closure, or damages the closure or bottle so that the water can spill, say, **"Thank you,"** take the bottle from the child and put it out of reach. Do not ask the child to spray a second time.

NOTE: Do not stop the test because the bottle is leaking unless the leak is clearly a result of the child opening the nozzle and spraying, opening the closure, or damaging the closure or bottle.

19. If after 5 minutes either one or both of the children have not succeeded, demonstrate (see 19.) the correct action (spraying water). Use Sample C to demonstrate.
20. Before starting the demonstration, ask the children to set their bottles aside. Do not let the children keep trying while you demonstrate.
21. Make sure the children are watching and can see your hands. Hold the demo bottle approximately two feet from the children and say, **"Watch me make my bottle spray."**
22. Press down the lock button (see figure) and turn the nozzle one-quarter turn to move from the "X" position to the spray position. Open the nozzle at a normal speed without exaggerating the actions. Pump the trigger until it sprays water, then set the bottle aside out of the children's reach.
23. Do not discuss or describe the action beyond the language specified above.
24. Start the second 5-minute period by saying, **"Now you try to make your bottles spray."** If one or both children have not used their teeth during the first 5 minutes, immediately say, **"You can use your teeth if you want to."** Do not say anything else about the children using their teeth. DO NOT do anything (such as frowning or

Spray Bottle Test 2: Spray/Older

shaking your head) or say anything that might discourage them from using their teeth.

25. As in the first part of the test, if a child becomes frustrated or bored and refuses to participate during the remaining time, be reassuring and occasionally encourage him or her to continue trying using any of the following prompts:

"Please keep trying."

"Please continue."

"Keep trying for me."

"I still need your help."

Record each time a prompt is used on the data sheet using hatch marks. Regardless of what the children are doing, do not repeat the instruction to spray.

26. If the child continues to refuse, ask the child to hold the bottle in his/her lap until the other child is finished. Do **not** eliminate this pair of children from the results unless the refusing child disrupts the participation of the other child.
27. Continue the test for 5 more minutes, or until both children have sprayed or otherwise accessed the water (see 16.), whichever comes first. If a child is successful, record the time by adding it to the first 5-minute test period. For example, if a child is successful one (1) minute into the second testing period, record $300 + 60 = 360$ seconds.
28. At the end of the test, if either of the children have been unable to spray or access the water, record 601 seconds on the data sheet.
29. To end the test say, **"Thank you for helping. Never play with bottles like this when you are by yourself. This kind of bottle might have something in it that would make you sick."** If the children were told to use their teeth, say, **"I know I told you that you could use your teeth today, but you should never put things like this in your mouth again."**

IMPORTANT

Please pay particular attention to the instructions in tests E&F, G&H, I&J, and K&L marked with an asterisk (*). Those instructions are important or unique to those sets of tests and must be followed exactly for the successful completion of those tests.

Spray Bottle Test (Younger) and F (Older): Neutral Language/Open then Spray Demonstration Order

Note to Testers: This test is part of a study of how children interact with spray containers. The procedures below are different from those used to test packaging. Please read and follow them exactly as given.

Sample Preparation and Handling

1. *Use the samples labeled E1 through E12 and F1 through F12 for the test. Give each child a different sample—do not re-use them. Use the sample labeled E/F for the demonstrations. The vent hole in the caps for these samples will be blocked with a screw to prevent leaking. Check to make sure the screw is firmly in place.

NOTE: There are extra samples in case they are needed, so you may have some left over.

2. Fill the samples, including the demonstration sample, with 6.25 inches of water, which is the level of the ridge molded into the bottle (see the attached figure for the fill line).
3. Put the closures (see attached figure) on the bottles and tighten them to a torque of 12 in-lb. Check to make sure that you can remove the closure on demonstration sample, then tighten them to the specified torque. If you cannot open the closure, use a lower level of torque until you can comfortably remove it for the demonstration.
4. *Turn each sample upside down and squeeze it twice. If any sample leaks more than a drop, do not use it for testing. Report the problem immediately so that CPSC can send additional samples if they are needed.
5. It's important to wait at least 72 hours let the closures "take a set" before using these samples in a test. Handle the bottles so that they will not be jarred or damaged during storage or transportation. Do not expose them to extreme heat or cold. Test them at room temperature.
6. Weigh the samples before and after the test. Record the weights to within 0.1 gm on the data collection sheets.

Spray Bottle Test (Younger) and F (Older): Neutral Language/Open then Spray Demonstration Order

Child Test Participants

1. *Test ten (10) children age 42-44 months (Group E) using samples E-1 through E-12. Test ten (10) children age 49-51 months (Group F) using samples F-1 through F-12. Calculate the children's ages in months as described in Attachment B.
2. Do not include any child who has tested other child-resistant packaging.
3. Do not test any children who are ill, injured, or handicapped in any way that would interfere with their ability to participate in the test.
4. You must have a parent or guardian read and sign a consent form for each child before starting the test (Attachment A).
5. Half of the children tested will be male and half female.

Procedure

1. Test the children in pairs.
2. Check audio/video equipment before testing each pair of children. Be sure that both children are in view, and that both the children and the tester can be heard clearly on the tape.
3. Escort each pair of children to the test area, or have another adult escort them. Seat the two children so that there is no visual barrier between them and you.
4. Talk to the children to make them feel at ease.
5. Avoid giving the children the impression that they are in a race or contest. Do not tell them that the test is a game or that it is fun. Do not offer them a reward.
6. Record all data before or after the test so that you can give your full attention to the children during the test.

Spray Bottle Test (Younger) and F (Older): Neutral Language/Open then Spray Demonstration Order

7. Use a stopwatch(s) or other timing device to time the two test periods.
8. *Have a container available, such as bucket or trash can, for children to pour or spray in water from the samples.
9. Before starting the test, get the children's attention by saying, "Okay children, we're ready to start. Look at me."
10. *To begin, place an identical bottle in front of each child and say, **"Please try to get some water out of the bottle for me."**
11. *Small leaks (a drop or two) should be ignored if possible. Encourage the child to continue by saying, **"Please try to get some more out."**
12. *If a sample leaks enough to be obvious (e.g., clear wet marks on clothing, the child showing you wet hands, etc.), thank the child, take the sample, and place it out of reach.
13. *After the first 60 seconds, if either one of the children has not tried to access the water, prompt them by repeating the instruction, **"Please try to get some water out of the bottle."** Record the prompt on the coding sheet.
14. If a child becomes frustrated or bored and refuses to participate during the remaining time, be reassuring and occasionally encourage him or her to continue trying using any of the following prompts:

"Please keep trying."

"Please continue."

"Keep trying for me."

"I still need your help."

Record each time a prompt is used on the data sheet using hatch marks.

If the child continues to refuse, ask the child to hold the bottle in his/her lap until the other child is finished. Do not eliminate this pair of

Spray Bottle Test (Younger) and F (Older): Neutral Language/Open then Spray Demonstration Order

children from the results unless the refusing child disrupts the participation of the other child.

15. *Give each child up to 5 minutes to access the water by removing the closure or spraying, except in the case of leaks as described in 12.
16. Watch the children at all times during the test. Minimize conversation with the children as long as they continue to try to follow the instructions. Do not discourage the children verbally or with facial expressions. Let the children move about freely within camera range to work on their bottles as long as you can watch both of them (e.g., they can stand up, get down on the floor, or pry open the bottle).
17. If a child is endangering himself or others at any time, stop the test. Eliminate the pair from the results.
18. Allow the children to talk to each other about the bottles and watch each other try.
19. Do not let one child try to use the other child's bottle.
20. *If a child is able to remove the closure or operate the sprayer correctly, allow him or her to spray or pour a small amount of water into the container [to correspond to the direction to get some water out]. Say, "**Thank you,**" take the bottle from the child, and put it out of reach. Do not ask the child to use the bottle a second time.

*NOTE: The children's use of the container is not essential to the test. You may stop the test if the child sprays or spills water elsewhere, or, for example, removes the closure but makes no effort to pour out some water.
21. *If after 5 minutes either one or both of the children have not succeeded, demonstrate *opening* first, then *spraying*, as described in the following steps. Use Sample E/F to demonstrate.
22. Before starting the demonstration, ask the children to set their bottles aside. Do not let the children keep trying while you demonstrate.

Spray Bottle Test (Younger) and F (Older): Neutral Language/Open then Spray Demonstration Order

23. *Make sure the children are watching and can see your hands. Hold the demo bottle approximately two feet from the children and say, **"Watch me while I do it. You can do it this way..."**

Open: Remove the closure from the neck at a normal speed without exaggerating the actions. Pour some water into the container and replace the cap. Then say, **"Or you can do it this way..."**

Spray: Press down the lock button (see figure) and turn the nozzle one-quarter turn to move from the "X" position to the spray position. Open the nozzle at a normal speed without exaggerating the actions. Pump the trigger until it sprays water.

24. Set the bottle aside out of the children's reach. Do not discuss or describe the actions beyond the language specified above.
25. *Start the second 5-minute period by saying, **"Now you try to get some water out of your bottle."** If one or both children have not used their teeth during the first 5 minutes, immediately say, **"You can use your teeth if you want to."** Do not say anything else about the children using their teeth. DO NOT do anything (such as frowning or shaking your head) or say anything that might discourage them from using their teeth.
26. As in the first part of the test, if a child becomes frustrated or bored and refuses to participate during the remaining time, be reassuring and occasionally encourage him or her to continue trying using any of the following prompts:

"Please keep trying."

"Please continue."

"Keep trying for me."

"I still need your help."

Record each time a prompt is used on the data sheet using hatch marks.

**Spray Bottle Test (Younger) and F (Older): Neutral
Language/Open then Spray Demonstration Order**

27. If the child continues to refuse, ask the child to hold the bottle in his/her lap until the other child is finished. Do **not** eliminate this pair of children from the results unless the refusing child disrupts the participation of the other child.
28. Continue the test for 5 more minutes, or until both children have accessed the water, whichever comes first. If a child is successful, record the time by adding it to the first 5-minute test period. For example, if a child is successful one (1) minute into the second testing period, record $300 + 60 = 360$ seconds.
29. At the end of the test if either of the children have been unable to access the water, record 601 seconds on the data sheet.
30. To end the test say, **"Thank you for helping. Never play with bottles like this when you are by yourself. This kind of bottle might have something in it that would make you sick."** If the children were told to use their teeth, say, **"I know I told you that you could use your teeth today, but you should never put things like this in your mouth again."**

Spray Bottle Test - G (Younger) and H (Older) Neutral Language/Spray then Open Demonstration Order

Note to Testers: This test is part of a study of how children interact with spray containers. The procedures below are different from those used to test packaging. Please read and follow them exactly as given.

Sample Preparation and Handling

1. *Use the samples labeled G1 through G12 and H1 through H12 for the test. Give each child a different sample—do not re-use them. Use the sample labeled G/H for the demonstrations. The vent hole in the caps for these samples will be blocked with a screw to prevent leaking. Check to make sure the screw is firmly in place.

NOTE: There are extra samples in case they are needed, so you may have some left over.

2. Fill the samples, including the demonstration sample, with 6.25 inches of water, which is the level of the ridge molded into the bottle (see the attached figure for the fill line).
3. Put the closures (see attached figure) on the bottles and tighten them to a torque of 12 in-lb. Check to make sure that you can remove the closure on demonstration sample, then tighten them to the specified torque. If you cannot open the closure, use a lower level of torque until you can comfortably remove it for the demonstration.
4. *Turn each sample upside down and squeeze it twice. If any sample leaks more than a drop, do not use it for testing. Report the problem immediately so that CPSC can send additional samples if they are needed.
5. It's important to wait at least 72 hours let the closures "take a set" before using these samples in a test. Handle the bottles so that they will not be jarred or damaged during storage or transportation. Do not expose them to extreme heat or cold. Test them at room temperature.
6. Weigh the samples before and after the test. Record the weights to within 0.1 gm on the data collection sheets.

Spray Bottle Test G (Younger) and H (Older) Neutral Language/Spray then Open Demonstration Order

Child Test Participants

1. *Test ten (10) children age 42-44 months (Group G) using samples G-1 through G-12. Test ten (10) children age 49-51 months (Group H) using samples H-1 through H-12. Calculate the children's ages in months as described in Attachment B.
2. Do not include any child who has tested other child-resistant packaging.
3. Do not test any children who are ill, injured, or handicapped in any way that would interfere with their ability to participate in the test.
4. You must have a parent or guardian read and sign a consent form for each child before starting the test (Attachment A).
5. Half of the children tested will be male and half female.

Procedure

1. Test the children in pairs.
2. Check audio/video equipment before testing each pair of children. Be sure that both children are in view, and that both the children and the tester can be heard clearly on the tape.
3. Escort each pair of children to the test area, or have another adult escort them. Seat the two children so that there is no visual barrier between them and you.
4. Talk to the children to make them feel at ease.
5. Avoid giving the children the impression that they are in a race or contest. Do not tell them that the test is a game or that it is fun. Do not offer them a reward.
6. Record all data before or after the test so that you can give your full attention to the children during the test.

Spray Bottle Test G (Younger) and H (Older) Neutral Language/Spray then Open Demonstration Order

7. Use a stopwatch(s) or other timing device to time the two test periods.
8. *Have a container available, such as bucket or trash can, for children to pour or spray in water from the samples.
9. Before starting the test, get the children's attention by saying, "Okay children, we're ready to start. Look at me."
10. *To begin, place an identical bottle in front of each child and say;
"Please try to get some water out of the bottle for me."
11. *Small leaks (a drop or two) should be ignored if possible. Encourage the child to continue by saying, **"Please try to get some more out."**
12. *If a sample leaks enough to be obvious (e.g., clear wet marks on clothing, the child showing you wet hands, etc.); thank the child, take the sample, and place it out of reach.
13. *After the first 60 seconds, if either one of the children has not tried to access the water, prompt them by repeating the instruction, **"Please try to get some water out of the bottle."** Record the prompt on the coding sheet.
14. If a child becomes frustrated or bored and refuses to participate during the remaining time, be reassuring and occasionally encourage him or her to continue trying using any of the following prompts:

"Please keep trying."

"Please continue."

"Keep trying for me."

"I still need your help."

Record each time a prompt is used on the data sheet using hatch marks.

If the child continues to refuse, ask the child to hold the bottle in his/her lap until the other child is finished. Do not eliminate this pair of

Spray Bottle Test G (Younger) and H (Older) Neutral Language/Spray then Open Demonstration Order

children from the results unless the refusing child disrupts the participation of the other child.

15. *Give each child up to 5 minutes to access the water by removing the closure or spraying, except in the case of leaks as described in 12.
16. Watch the children at all times during the test. Minimize conversation with the children as long as they continue to try to follow the instructions. Do not discourage the children verbally or with facial expressions. Let the children move about freely within camera range to work on their bottles as long as you can watch both of them (e.g., they can stand up, get down on the floor, or pry open the bottle).
17. If a child is endangering himself or others at any time, stop the test. Eliminate the pair from the results.
18. Allow the children to talk to each other about the bottles and watch each other try.
19. Do not let one child try to use the other child's bottle.
20. *If a child is able to remove the closure or operate the sprayer correctly, allow him or her to spray or pour a small amount of water into the container [to correspond to the direction to get some water out]. Say, "**Thank you,**" take the bottle from the child, and put it out of reach. Do not ask the child to use the bottle a second time.

*NOTE: The children's use of the container is not essential to the test. You may stop the test if the child sprays or spills water elsewhere, or, for example, removes the closure but makes no effort to pour out some water.
21. *If after 5 minutes either one or both of the children have not succeeded, demonstrate *spraying* first, then *opening*, as described in the following steps. Use Sample G/H to demonstrate.
22. Before starting the demonstration, ask the children to set their bottles aside. Do not let the children keep trying while you demonstrate.

Spray Bottle Test: G (Younger) and H (Older): Neutral Language/Spray then Open Demonstration Gender

23. *Make sure the children are watching and can see your hands. Hold the demo bottle approximately two feet from the children and say, **"Watch me while I do it. You can do it this way..."**

Spray: Press down the lock button (see figure) and turn the nozzle one-quarter turn to move from the "X" position to the spray position. Open the nozzle at a normal speed without exaggerating the actions. Pump the trigger until it sprays water.

Then say, **"Or you can do it this way..."**

Open: Remove the closure from the neck at a normal speed without exaggerating the actions. Pour some water into the container and replace the cap.

24. Set the bottle aside out of the children's reach. Do not discuss or describe the actions beyond the language specified above.
25. *Start the second 5-minute period by saying, **"Now you try to get some water out of your bottle."** If one or both children have not used their teeth during the first 5 minutes, immediately say, **"You can use your teeth if you want to."** Do not say anything else about the children using their teeth. DO NOT do anything (such as frowning or shaking your head) or say anything that might discourage them from using their teeth.
26. As in the first part of the test, if a child becomes frustrated or bored and refuses to participate during the remaining time, be reassuring and occasionally encourage him or her to continue trying using any of the following prompts:

"Please keep trying."

"Please continue."

"Keep trying for me."

"I still need your help."

Record each time a prompt is used on the data sheet using hatch marks.

Spray Bottle Test: G (Younger) and H (Older): Neutral Language/Spray then Open Demonstration Condition

27. If the child continues to refuse, ask the child to hold the bottle in his/her lap until the other child is finished. Do not eliminate this pair of children from the results unless the refusing child disrupts the participation of the other child.
28. Continue the test for 5 more minutes, or until both children have accessed the water, whichever comes first. If a child is successful, record the time by adding it to the first 5-minute test period. For example, if a child is successful one (1) minute into the second testing period, record $300 + 60 = 360$ seconds.
29. At the end of the test if either of the children have been unable to access the water, record 601 seconds on the data sheet.
30. To end the test say, **"Thank you for helping. Never play with bottles like this when you are by yourself. This kind of bottle might have something in it that would make you sick."** If the children were told to use their teeth, say, **"I know I told you that you could use your teeth today, but you should never put things like this in your mouth again."**

Spray Bottle Test (Younger) and J (Older): Fixed "Open or Spray" Language/Open then Spray Demonstration Order

Note to Testers: This test is part of a study of how children interact with spray containers. The procedures below are different from those used to test packaging. Please read and follow them exactly as given.

Sample Preparation and Handling

1. Use the samples labeled I1 through I12 and J1 through J12 for the test. Give each child a different sample—do not re-use them. Use the sample labeled I/J for the demonstrations. The vent hole in the caps for these samples will be blocked with a screw to prevent leaking. Check to make sure the screw is firmly in place.

NOTE: There are extra samples in case they are needed, so you may have some left over.

2. Fill the samples, including the demonstration sample, with 6.25 inches of water, which is the level of the ridge molded into the bottle (see the attached figure for the fill line).
3. Put the closures (see attached figure) on the bottles and tighten them to a torque of 12 in-lb. Check to make sure that you can remove the closure on demonstration sample, then tighten them to the specified torque. If you cannot open the closure, use a lower level of torque until you can comfortably remove it for the demonstration.
4. Turn each sample upside down and squeeze it twice. If any sample leaks more than a drop, do not use it for testing. Report the problem immediately so that CPSC can send additional samples if they are needed.
5. It's important to wait at least 72 hours let the closures "take a set" before using these samples in a test. Handle the bottles so that they will not be jarred or damaged during storage or transportation. Do not expose them to extreme heat or cold. Test them at room temperature.
6. Weigh the samples before and after the test. Record the weights to within 0.1 gm on the data collection sheets.

Spray Bottle Test (Younger) and J (Older): Fixed "Open or Spray" Language/Open then Spray Demonstration Order

Child Test Participants

1. Test ten (10) children age 42-44 months (Group I) using samples I-1 through I-12. Test ten (10) children age 49-51 months (Group J) using samples J-1 through J-12. Calculate the children's ages in months as described in Attachment B.
2. Do not include any child who has tested other child-resistant packaging.
3. Do not test any children who are ill, injured, or handicapped in any way that would interfere with their ability to participate in the test.
4. You must have a parent or guardian read and sign a consent form for each child before starting the test (Attachment A).
5. Half of the children tested will be male and half female.

Procedure

1. Test the children in pairs.
2. Check audio/video equipment before testing each pair of children. Be sure that both children are in view, and that both the children and the tester can be heard clearly on the tape.
3. Escort each pair of children to the test area, or have another adult escort them. Seat the two children so that there is no visual barrier between them and you.
4. Talk to the children to make them feel at ease.
5. Avoid giving the children the impression that they are in a race or contest. Do not tell them that the test is a game or that it is fun. Do not offer them a reward.
6. Record all data before or after the test so that you can give your full attention to the children during the test.

Spray Bottle Test (Younger) and J (Older): Mixed "Open or Spray" Language/Open then Spray Demonstration Order

7. Use a stopwatch(s) or other timing device to time the two test periods.
8. Before starting the test, get the children's attention by saying, "Okay children, we're ready to start. Look at me."
9. To begin, place an identical bottle in front of each child and say,
"Please try to open or spray this for me."
10. Small leaks (a drop or two) should be ignored if possible. Encourage the child to continue by saying, **"Please keep trying."**
11. If a sample leaks enough to be obvious (e.g., clear wet marks on clothing, the child showing you wet hands, etc.), thank the child, take the sample, and place it out of reach.
12. After the first 60 seconds, if either one of the children has not tried to open or spray, prompt them by repeating the instruction, **"Please try to open or spray for me."** Record the prompt on the coding sheet.
13. If a child becomes frustrated or bored and refuses to participate during the remaining time, be reassuring and occasionally encourage him or her to continue trying using any of the following prompts:

"Please keep trying."

"Please continue."

"Keep trying for me."

"I still need your help."

Record each time a prompt is used on the data sheet using hatch marks.

If the child continues to refuse, ask the child to hold the bottle in his/her lap until the other child is finished. Do **not** eliminate this pair of children from the results unless the refusing child disrupts the participation of the other child.

14. Give each child up to 5 minutes to remove the closure or spray water, except in the case of leaks as described in 11.

Spray Bottle Test (Younger) and J (Older): Mixed "Open or Spray" Language/Open then Spray Demonstration Order

15. Watch the children at all times during the test. Minimize conversation with the children as long as they continue to try to follow the instructions. Do not discourage the children verbally or with facial expressions. Let the children move about freely within camera range to work on their bottles as long as you can watch both of them (e.g., they can stand up, get down on the floor, or pry open the bottle).
16. If a child is endangering himself or others at any time, stop the test. Eliminate the pair from the results.
17. Allow the children to talk to each other about the bottles and watch each other try.
18. Do not let one child try to use the other child's bottle.
19. If a child is able to remove the closure or operate the sprayer correctly, say, **"Thank you,"** take the bottle from the child, and put it out of reach. Do not ask the child to use the bottle a second time.
20. If after 5 minutes either one or both of the children have not succeeded, demonstrate *opening* first, then *spraying*, as described in the following steps. Use Sample I/J to demonstrate.
21. Before starting the demonstration, ask the children to set their bottles aside. Do not let the children keep trying while you demonstrate.
22. Make sure the children are watching and can see your hands. Hold the demo bottle approximately two feet from the children and say, **"Watch me while I do it. You can open this way..."**

Open: Remove the closure from the neck at a normal speed without exaggerating the actions. Replace the cap, then say, **"Or you can spray this way..."**

Spray: Press down the lock button (see figure) and turn the nozzle one-quarter turn to move from the "X" position to the spray position. Open the nozzle at a normal speed without exaggerating the actions. Pump the trigger until it sprays water.

Spray Bottle Test - (Younger) and J (Older): Mixed "Open or Spray" Language/Open then Spray Demonstration Order

23. Set the bottle aside out of the children's reach. Do not discuss or describe the actions beyond the language specified above.
24. Start the second 5-minute period by saying, **"Now you try to open or spray."** If one or both children have not used their teeth during the first 5 minutes, immediately say, **"You can use your teeth if you want to."** Do not say anything else about the children using their teeth. **DO NOT** do anything (such as frowning or shaking your head) or say anything that might discourage them from using their teeth.
25. As in the first part of the test, if a child becomes frustrated or bored and refuses to participate during the remaining time, be reassuring and occasionally encourage him or her to continue trying using any of the following prompts:

"Please keep trying."

"Please continue."

"Keep trying for me."

"I still need your help."

Record each time a prompt is used on the data sheet using hatch marks.

26. If the child continues to refuse, ask the child to hold the bottle in his/her lap until the other child is finished. Do **not** eliminate this pair of children from the results unless the refusing child disrupts the participation of the other child.
27. Continue the test for 5 more minutes, or until both children have opened or sprayed, whichever comes first. If a child is successful, record the time by adding it to the first 5-minute test period. For example, if a child is successful one (1) minute into the second testing period, record $300 + 60 = 360$ seconds.
28. At the end of the test if either of the children have been unable to access the water, record 601 seconds on the data sheet.

Spray Bottle Test (Younger) and J (Older): Mixed "Open or Spray" Language/Open then Spray Demonstration Order

29. To end the test say, "Thank you for helping. Never play with bottles like this when you are by yourself. This kind of bottle might have something in it that would make you sick." If the children were told to use their teeth, say, "I know I told you that you could use your teeth today, but you should never put things like this in your mouth again."

Spray Bottle Test (Younger) and L (Older): Fixed "Spray or Open" Language/Spray then Open Demonstration Order

Note to Testers: This test is part of a study of how children interact with spray containers. The procedures below are different from those used to test packaging. Please read and follow them exactly as given.

Sample Preparation and Handling

1. Use the samples labeled K1 through K12 and L1 through L12 for the test. Give each child a different sample—do not re-use them. Use the sample labeled K/L for the demonstrations. The vent hole in the caps for these samples will be blocked with a screw to prevent leaking. Check to make sure the screw is firmly in place.

NOTE: There are extra samples in case they are needed, so you may have some left over.

2. Fill the samples, including the demonstration sample, with 6.25 inches of water, which is the level of the ridge molded into the bottle (see the attached figure for the fill line).
3. Put the closures (see attached figure) on the bottles and tighten them to a torque of 12 in-lb. Check to make sure that you can remove the closure on demonstration sample, then tighten them to the specified torque. If you cannot open the closure, use a lower level of torque until you can comfortably remove it for the demonstration.
4. Turn each sample upside down and squeeze it twice. If any sample leaks more than a drop, do not use it for testing. Report the problem immediately so that CPSC can send additional samples if they are needed.
5. It's important to wait at least 72 hours let the closures "take a set" before using these samples in a test. Handle the bottles so that they will not be jarred or damaged during storage or transportation. Do not expose them to extreme heat or cold. Test them at room temperature.
6. Weigh the samples before and after the test. Record the weights to within 0.1 gm on the data collection sheets.

Spray Bottle Test (Younger) and L (Older): "Fixed "Spray or Open" Language/Spray then Open Demonstration Order

Child Test Participants

1. Test ten (10) children age 42-44 months (Group K) using samples K-1 through K-12. Test ten (10) children age 49-51 months (Group L) using samples L-1 through L-12. Calculate the children's ages in months as described in Attachment B.
2. Do not include any child who has tested other child-resistant packaging.
3. Do not test any children who are ill, injured, or handicapped in any way that would interfere with their ability to participate in the test.
4. You must have a parent or guardian read and sign a consent form for each child before starting the test (Attachment A).
5. Half of the children tested will be male and half female.

Procedure

1. Test the children in pairs.
2. Check audio/video equipment before testing each pair of children. Be sure that both children are in view, and that both the children and the tester can be heard clearly on the tape.
3. Escort each pair of children to the test area, or have another adult escort them. Seat the two children so that there is no visual barrier between them and you.
4. Talk to the children to make them feel at ease.
5. Avoid giving the children the impression that they are in a race or contest. Do not tell them that the test is a game or that it is fun. Do not offer them a reward.
6. Record all data before or after the test so that you can give your full attention to the children during the test.

Spray Bottle Test (Younger) and L (Older): Fixed "Spray or Open" Language/Spray then Open Demonstration Order

7. Use a stopwatch(s) or other timing device to time the two test periods.
8. Before starting the test, get the children's attention by saying, "Okay children, we're ready to start. Look at me."
9. To begin, place an identical bottle in front of each child and say, **"Please try to spray or open this for me."**
10. Small leaks (a drop or two) should be ignored if possible. Encourage the child to continue by saying, **"Please keep trying."**
11. If a sample leaks enough to be obvious (e.g., clear wet marks on clothing, the child showing you wet hands, etc.), thank the child, take the sample, and place it out of reach.
12. After the first 60 seconds, if either one of the children has not tried to open or spray, prompt them by repeating the instruction, **"Please try to spray or open for me."** Record the prompt on the coding sheet.
13. If a child becomes frustrated or bored and refuses to participate during the remaining time, be reassuring and occasionally encourage him or her to continue trying using any of the following prompts:

"Please keep trying."

"Please continue."

"Keep trying for me."

"I still need your help."

Record each time a prompt is used on the data sheet using hatch marks.

If the child continues to refuse, ask the child to hold the bottle in his/her lap until the other child is finished. Do **not** eliminate this pair of children from the results unless the refusing child disrupts the participation of the other child.

14. Give each child up to 5 minutes to remove the closure or spray water, except in the case of leaks as described in 11.

Spray Bottle Test (Younger) and L (Older): Mixed "Spray or Open" Language/Spray then Open Demonstration Order

15. Watch the children at all times during the test. Minimize conversation with the children as long as they continue to try to follow the instructions. Do not discourage the children verbally or with facial expressions. Let the children move about freely within camera range to work on their bottles as long as you can watch both of them (e.g., they can stand up, get down on the floor, or pry open the bottle).
16. If a child is endangering himself or others at any time, stop the test. Eliminate the pair from the results.
17. Allow the children to talk to each other about the bottles and watch each other try.
18. Do not let one child try to use the other child's bottle.
19. If a child is able to operate the sprayer or remove the closure, say, **"Thank you,"** take the bottle from the child, and put it out of reach. Do not ask the child to use the bottle a second time.
20. If after 5 minutes either one or both of the children have not succeeded, demonstrate *spraying* first, then *opening*, as described in the following steps. Use Sample K/L to demonstrate.
21. Before starting the demonstration, ask the children to set their bottles aside. Do not let the children keep trying while you demonstrate.
22. Make sure the children are watching and can see your hands. Hold the demo bottle approximately two feet from the children and say, **"Watch me while I do it. You can spray this way..."**

Spray: Press down the lock button (see figure) and turn the nozzle one-quarter turn to move from the "X" position to the spray position. Open the nozzle at a normal speed without exaggerating the actions. Pump the trigger until it sprays water. Then say, **"Or you can open this way..."**

Open: Remove the closure from the neck at a normal speed without exaggerating the actions, then replace the cap.

Spray Bottle Test (Younger) and L (Older): Mixed "Spray or Open" Language/Spray then Open Demonstration Order

23. Set the bottle aside out of the children's reach. Do not discuss or describe the actions beyond the language specified above.
24. Start the second 5-minute period by saying, **"Now you try to spray or open."** If one or both children have not used their teeth during the first 5 minutes, immediately say, **"You can use your teeth if you want to."** Do not say anything else about the children using their teeth. **DO NOT** do anything (such as frowning or shaking your head) or say anything that might discourage them from using their teeth.
25. As in the first part of the test, if a child becomes frustrated or bored and refuses to participate during the remaining time, be reassuring and occasionally encourage him or her to continue trying using any of the following prompts:

"Please keep trying."

"Please continue."

"Keep trying for me."

"I still need your help."

Record each time a prompt is used on the data sheet using hatch marks.

26. If the child continues to refuse, ask the child to hold the bottle in his/her lap until the other child is finished. Do **not** eliminate this pair of children from the results unless the refusing child disrupts the participation of the other child.
27. Continue the test for 5 more minutes, or until both children have sprayed or opened, whichever comes first. If a child is successful, record the time by adding it to the first 5-minute test period. For example, if a child is successful one (1) minute into the second testing period, record $300 + 60 = 360$ seconds.
28. At the end of the test if either of the children have been unable to access the water, record 601 seconds on the data sheet.
29. To end the test say, **"Thank you for helping. Never play with**

Spray Bottle Test -- (Younger) and L (Older): Mixed "Spray or Open" Language/Spray then Open Demonstration Order

bottles like this when you are by yourself. This kind of bottle might have something in it that would make you sick." If the children were told to use their teeth, say, "I know I told you that you could use your teeth today, but you should never put things like this in your mouth again."

ATTACHMENT D

CHILD DATA SHEET AND TEST CODES

CHILD TRIGGER SPRAYER TEST DATA

Test Date	Time	Test No.	Tester
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Package Kg. No.	Birthdates month day year	Age	Sex 1 = Male 2 = Female
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Package Weight	Success Time (sec)	Used Teeth 1st 5-min 2nd 5-min	Package Weight After
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Tester Comments			
1st 5 min	Prompt at 60 s? Y ___ N ___	Additional prompts?	
		Total:	
2nd 5 min		Additional prompts?	
		Total:	
Statement made: "You can use your teeth if you want to." Check Here ↓			

Package Pkg. No.	Birthdates month day year	Age	Sex 1 = Male 2 = Female
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Package Weight	Success Time (sec)	Used Teeth 1st 5-min 2nd 5-min	Package Weight After
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Tester Comments			
1st 5 min	Prompt at 60 s? Y ___ N ___	Additional prompts?	
		Total:	
2nd 5 min		Additional prompts?	
		Total:	
Statement made: "You can use your teeth if you want to." Check Here ↓			

Comments:

- T01 Tried to turn nozzle
- T02 Rotated / turned nozzle
- T03 Tried to open lock
- T04 Opened lock
- T05 Rotated entire spray head
- T06 Squeezed trigger
- T07 Tried to squeeze trigger first

- T08 Tried to open at neck
- T09 Tried to open at neck first
- T10 Used mouth or teeth
- T20 Water released from nozzle, nozzle not rotated
- T21 Water leaked from neck
- T21 Water loss apparent, source can not be determined
- T22 Broke closure (specify part in comments)
- T23 Hit package on floor, table or other object

- T24 Other (specify in tester comments)
- T30 Child cried
- T31 Child refused to try or only held package
- T32 Child asked interviewer to open
- T33 Child dropped package on floor
- T34 Child squeezed trigger for most of test period
- T35 Child tried to open at the neck for most of test period

ATTACHMENT E

DATABASE FIELDS

TRIGGER SPRAYERS PRELIMINARY OBSERVATIONS

Package Number	Pkg Weight Before	Pkg Weight After	Water Loss	Water Observer	Nozzle Turned	Trigger Pulled	Trigger Sprayed	Neck Opened	Leaked	Time to Open (sec)	Statement of Try to open made	Time statement "try to open made" (sec)	Statement of teeth use made
			0=N, 1=Y		0=N, 1=Y	0=N, 1=Y	0=N, 1=Y	0=N, 1=Y	0=N, 1=Y		0=N, 1=Y		0=N, 1=Y

Teeth used 1st - 5min 0=N, 1=Y	Teeth used 2nd - 5min 0=N, 1=Y	Age	Sex	Tester	Comments
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